

Determine the slope of each line.

1.  $a$

2.  $b$

3.  $c$

4.  $d$

5.  $e$

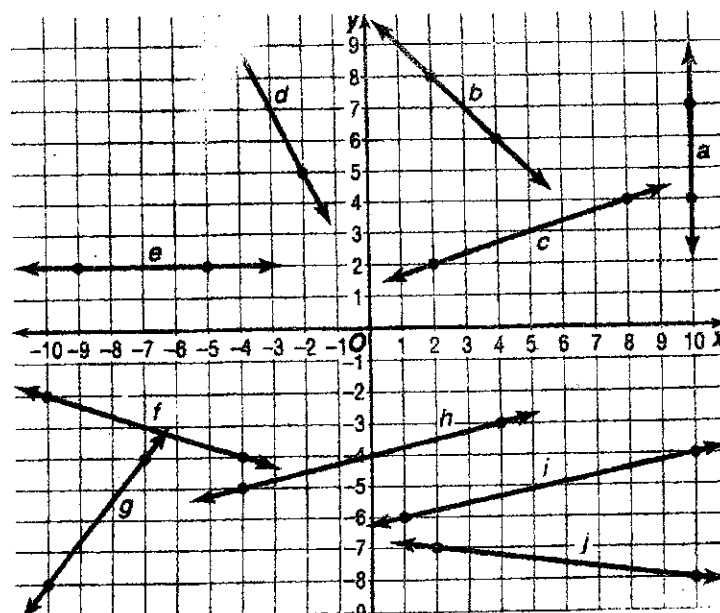
6.  $f$

7.  $g$

8.  $h$

9.  $i$

10.  $j$



Determine the slope of the line that passes through each pair of points.

11.  $(2, 5), (3, 6)$

12.  $(4, 1), (-4, 1)$

13.  $(-2, 10), (3, 2)$

14. Determine the value of  $k$  so the line that passes through the points  $(k, 3)$  and  $(-4, 5)$  has the slope of  $m = -\frac{2}{5}$ .

Write the point-slope for of an equation of the line that contains the given point(s) and/or slope.

15.  $(1, 1); m = \frac{1}{4}$

16.  $(5, 3), (-4, 3)$

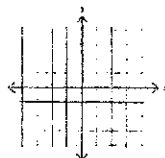
17.  $(-2, 1); m = 1$

18.  $(-4, 6), (-2, 5)$

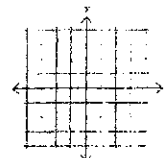
19.  $(0, 0); m = -3$

20.  $(-5, 1), (0, -2)$

21. Sketch a picture of the graph that has an undefined slope and goes through the point  $(2, -3)$ .



22. Sketch a picture of the graph that has a zero slope and goes through the point  $(2, -3)$ .



23. Write the equation of a vertical line that passes through  $(-4, 8)$ .

24. Write the equation of a line with a zero slope and goes through  $(3, 2)$ .

25. Write the equation of a horizontal line that passes through  $(0, 0)$ .